

CLAIMS

1. A work assembling device comprising a work holding jig for converting each part assembling surface sequentially to an upward horizontal attitude by rotating a work provided with a part assembling surface on many faces, and a part gripping device which is provided at an upper part of this work holding jig and can position an assembly part above the work and fasten a bolt in a vertical direction.
2. The work assembling device according to claim 1, wherein a pair of arms are provided at the part gripping device, and a claw which can support a bottom face of the assembly part and a fastening tool which can fasten the bolt are provided at a tip end of each of the arms.
3. A work assembling method comprising steps of sequentially converting a part assembling surface of a work to an upward horizontal attitude by rotating the work provided with a part assembling surface on many faces, sequentially positioning an assembly part above the part assembling surface and fastening a bolt vertically.
4. The work assembling method according to claim 3, wherein when an assembly part is positioned above the part assembling surface, a bolt is inserted into at least one bolt insertion hole in advance, and a socket of a fastening tool is fitted with this bolt head for positioning.
5. A work assembling device having a substantially L-shaped work holding jig for holding a work provided with a part assembling surface on many faces, characterized in that the holding jig is made detachably attachable with respect to a column provided with a driving portion, a holding portion for holding the work and a part of a first rotating mechanism for rotating this holding portion are provided on one face of substantially the L-shape, while a connecting mechanism for connecting to the column and a second rotating mechanism for rotating the work holding jig are provided outside of the other face side of substantially the L-shape, so that an attitude

of the work is converted by driving the driving portion while the work holding jig is connected to the column and all the part assembling surfaces are held in the upward horizontal state by combination of rotation of the holding portion and rotation of the work holding jig.

6. The work assembling device according to claim 5, wherein a notch hole is formed in the holding portion.

7. The work assembling device according to claim 6, wherein a worm gear to be meshed with a gear on the holding portion side is provided as a first rotating mechanism for rotating the holding portion.

8. A work assembling device having a gripping device for a assembly part to be positioned at a predetermined assembly position while a bolt is inserted into a bolt insertion hole of the assembly part when assembling the assembly part, characterized in that the gripping device is provided with a claw which can support a bottom face of the assembly part, a socket which can be freely fitted in a bolt head to be inserted into the bolt insertion hole, a nut runner for rotating this socket, and a position detecting means for detecting a position of the socket, and the assembly part is gripped and positioned by supporting the bottom face of the assembly part with the claw and by fitting the socket in the bolt head at the same time.

9. The work assembling device according to claim 8, wherein the claw is made capable of proximity/detachment with respect to the socket.

10. The work assembling device having the gripping device for an assembly part according to claim 8 or 9, wherein the claw is provided in a pair capable of adjustment of an interval between them.